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APPLICATION NO.	PLICATION NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO. CONFIRMATION		
09/844,097 04/27/2001		Nobuo Tanabe	113197-009	9751	
7:	590 12/28/2001				
Robert M. Barrett, Esq.			EXAMINER		
Bell, Boyd & I. P.O. Box 1135		DINH, TUAN T			
Chicago, IL 60690-1135			ART UNIT	PAPER NUMBER	
			2841		
		DATE MAILED: 12/28/2001			

Please find below and/or attached an Office communication concerning this application or proceeding.

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			Application	on No.	Applicant(s)			
<u> </u>		09/844,09	7	TANABE ET AL.				
Office Action Summary			Examiner		Art Unit			
		Tuan T Dir	nh	2841				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address								
Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status								
	esponsive to communication(s)	filed on 27	April 2001 .					
J i	is action is FINAL .		his action is	non-final				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims								
- 4)⊠ Cla	4)⊠ Claim(s) <u>1-6</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6)⊠ Cla	im(s) <u>1-6</u> is/are rejected.							
7) <u></u> Cla	im(s) is/are objected to.							
8) <u></u> Cla	im(s) are subject to restr	iction and/o	or election re	equirement.				
Application I	Papers							
9)⊠ The	specification is objected to by the	ne Examine	er.					
10)⊠ The	drawing(s) filed on <u>27 April 200</u>	<u>1</u> is/are: a)[accepted o	or b) 🛛 objected to by t	the Examiner.			
•	pplicant may not request that any ol	-						
	proposed drawing correction file				oved by the Examiner.			
lf a	approved, corrected drawings are re	equired in re	ply to this Off	ice action.				
12) The	oath or declaration is objected t	o by the Ex	kaminer.					
Priority unde	er 35 U.S.C. §§ 119 and 120							
13) <u></u> Ack	nowledgment is made of a clair	n for foreigr	n priority und	der 35 U.S.C. § 119(a	a)-(d) or (f).			
a) All b) Some * c) None of:								
1.	1. Certified copies of the priority documents have been received.							
2.	2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
	The translation of the foreign la							
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)								
2) Notice of D	References Cited (PTO-892) Draftsperson's Patent Drawing Review (n Disclosure Statement(s) (PTO-1449) I				y (PTO-413) Paper No(s) Patent Application (PTO-152)			

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DETAILED ACTION

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description: **pages 4-8**. A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

The drawings are objected to under 37 CFR 1.84(h)(5) **because Figure 1 (Prior Art)** show(s) modified forms of construction in the same view. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

A substitute specification in proper **idiomatic English** and in compliance with 37 CFR 1.52(a) and (b) is required. The substitute specification filed must be accompanied by a statement that it contains no new matter.

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Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 1, line 5, it is unclear. Applicant recites "a base film side adhesive layer, line 1, but in claim 1, line 5, applicant sets forth "at least one base film side layer." It is contradiction.

Regarding claim 5, lines 5-6, it is unclear. The phrase of "the base film side adhesive and the cover layer side adhesive layer has a higher glass transition temperature than the working environment temperature of the flexible printed circuit board" is not understood. What does applicant meant by "working environment temperature?" Does applicant meant of "a normal environment temperature?" if not, does applicant meant of "working environment temperature" which is in Nuclear environment or in North Pole?

Regarding claims 5-6, lines 1-2, it is confuse. What does applicant meant of "a bending life of the flexible printed circuit board is ten million times or greater per minute at 60 degrees" and "between a million times and ten millions per minute at 80 degrees"?.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-6 are rejected under 35 U.S.C. 102(e) as being anticipated by Saunders (U. S. Patent 6,075,423).

As best understood to claims 1-6, Saunders discloses a flexible printed circuit board (10-figure 1, column 2, line 41) comprising:

a base film (26, column 2, line 56);

a base film side adhesive layer (18, column 2, line 49) provided on the base film;

a metal coil layer (12, column 2, line 46) on which a pattern circuit (14; 16) is formed, provided on the base film side adhesive layer (18); and

a cover layer side adhesive layer (28, column 2, line 56) provided on the metal foil layer (12), wherein said base film side adhesive layer and cover layer side adhesive layer are made of epoxy resin adhesive (column 2, lines 62-64).

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Vu et al., Chakravorty, Gotoh et al., Takahashi et al., and Leeb disclose related art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T Dinh whose telephone number is 703-306-5856. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Gaffin can be reached on 703-308-3301. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-1341 for regular communications and 703-305-1341 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

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December 21, 2001

Jayprakash N. Gandhi Primary Examiner

Technology Center 2800

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